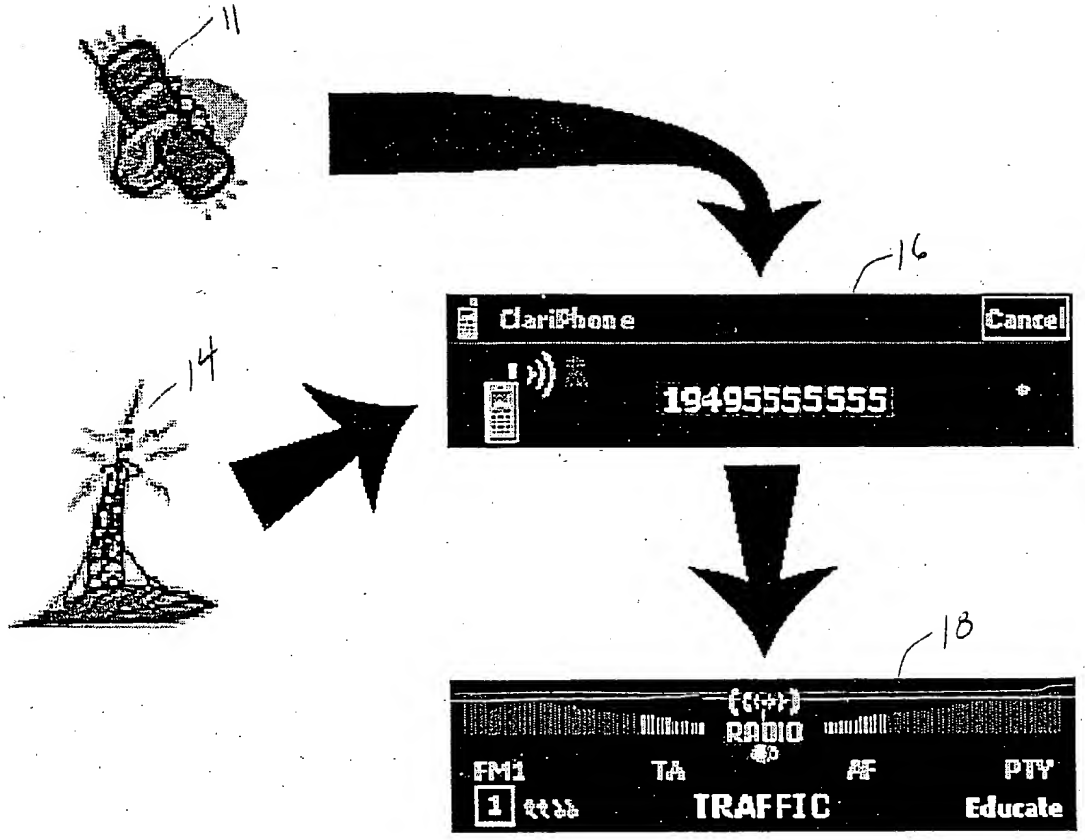


FIG. 1 - PRIOR ART -

FOREIGN PATENT DOCUMENT

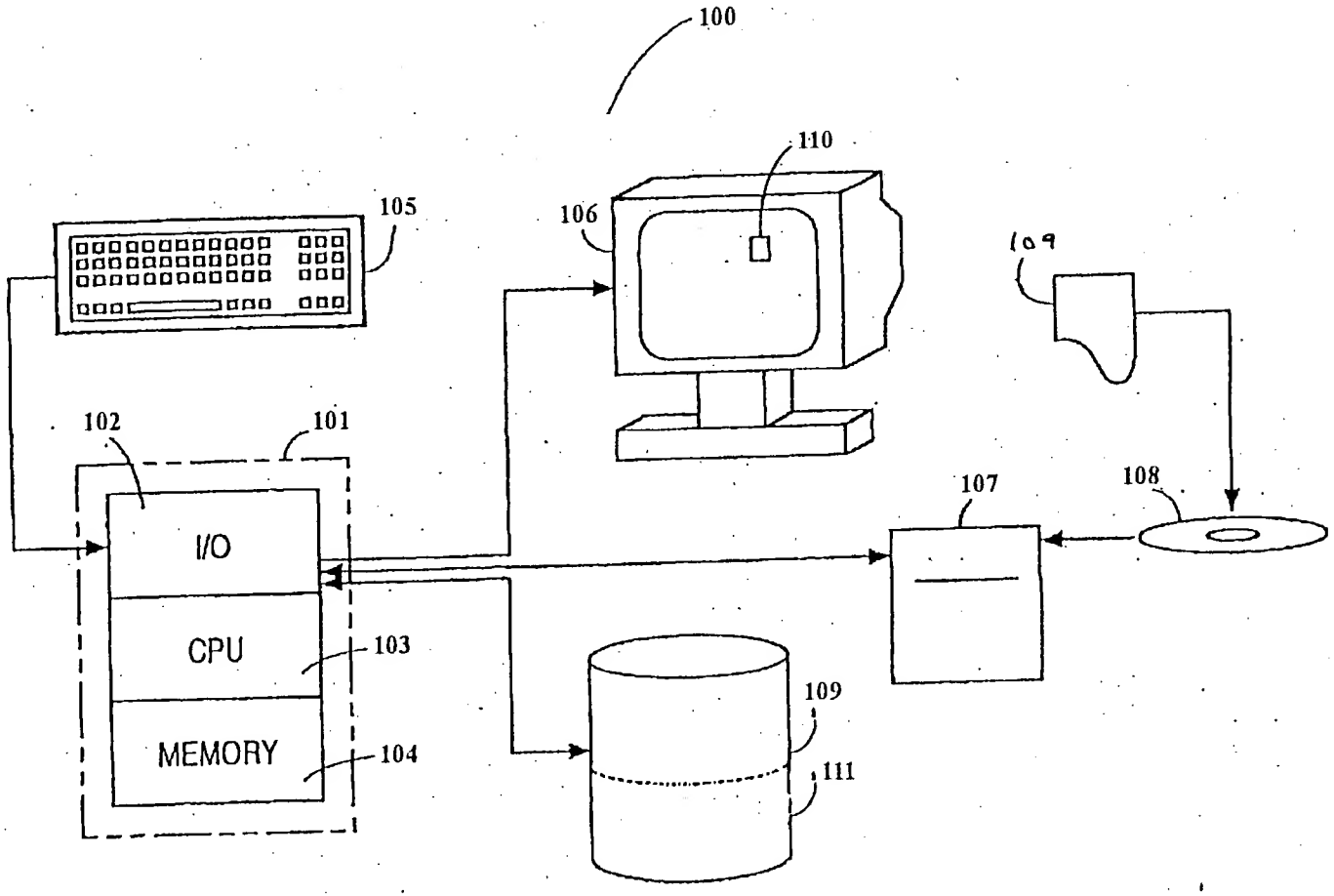
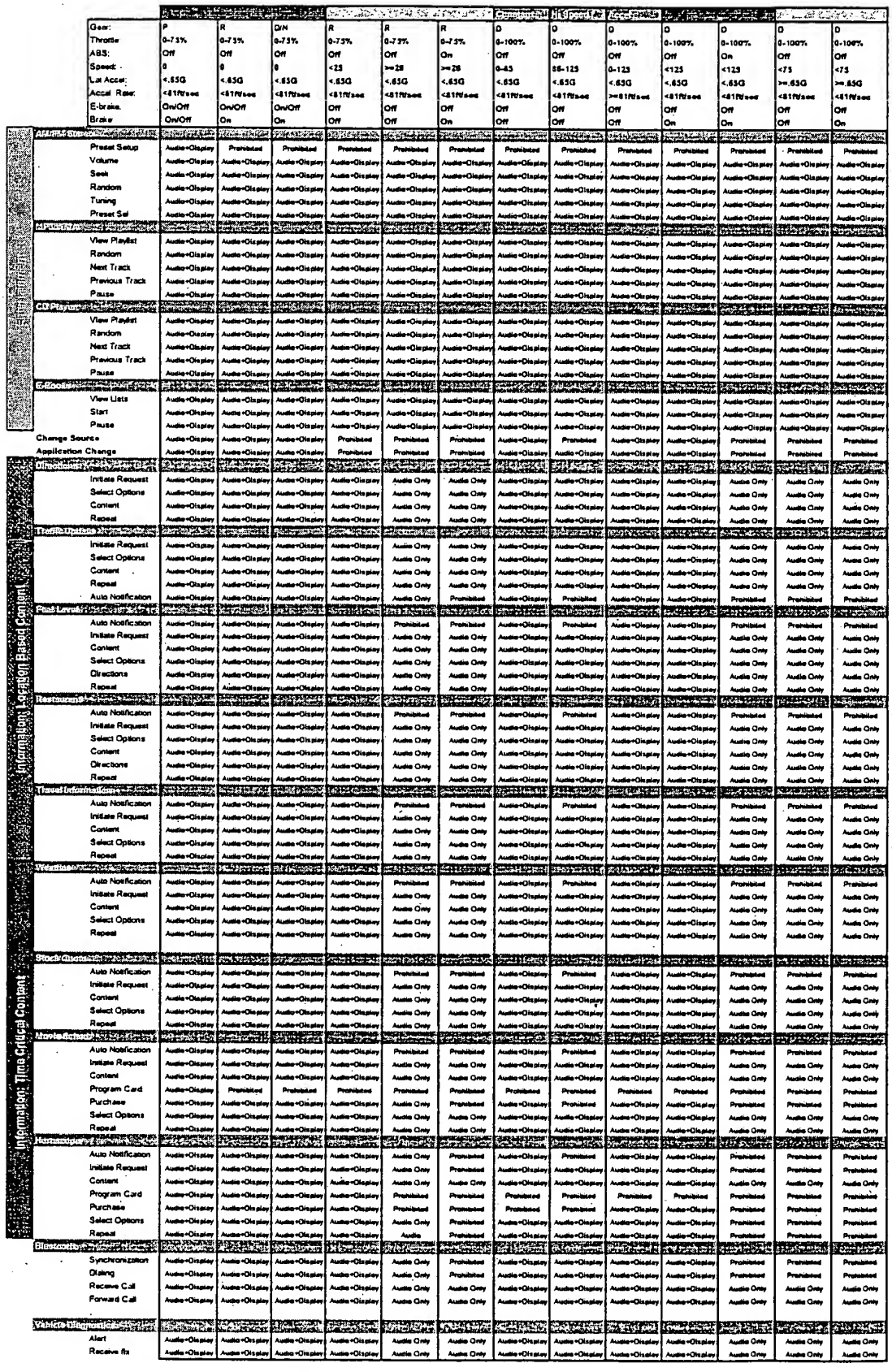


FIG. 2



Gear:	P	R	D/N	R	R	R	D	D	D	D	D	D	D	D
Throttle	0-75%	0-75%	0-75%	0-75%	0-75%	On	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
ABS:	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	On	Off	Off	Off
Speed:	0	0	0	<25	>=25	>=25	0-45	55-125	0-125	<125	<125	<75	<75	<75
Lat Accel:	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	<.65G	>=.65G	>=.65G	>=.65G
Accel Rate:	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	>=81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec	<81ft/sec
E-brake	On/Off	On/Off	On/Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Brake	On/Off	On	On	Off	Off	On	Off	Off	Off	On	On	Off	Off	On
Information: Non-Driving Related														
Audio														
Preset Setup	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
Volume	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Seek	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Random	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Tuning	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Preset Sel	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Playlist														
View Playlist	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Random	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Next Track	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Previous Track	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Pause	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
CD Player														
View Playlist	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Random	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Next Track	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Previous Track	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Pause	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Choose Source														
View Lists	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Start	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Pause	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio+Display
Change Source	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Application Change	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Information: Location Based Content														
Internet Radio														
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Traffic														
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Fuel Information														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Directions	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Restaurant Information														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Directions	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Travel Information														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Weather														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Stock Information														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Movie Information														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Program Card	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Purchase	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Information: Time Critical Content														
Restaurant Reservation														
Auto Notification	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Audio+Display	Prohibited	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Initiate Request	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Content	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Program Card	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
Purchase	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Select Options	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Prohibited	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Repeat	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio	Prohibited	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Bluetooth														
Synchronization	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Prohibited	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Dialing	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Prohibited	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Prohibited	Prohibited	Prohibited	Prohibited
Receive Call	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Forward Call	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Vehicle Diagnostics														
Alert	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only
Receive fix	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio+Display	Audio+Display	Audio+Display	Audio+Display	Audio Only	Audio Only	Audio Only	Audio Only

FIG. 3

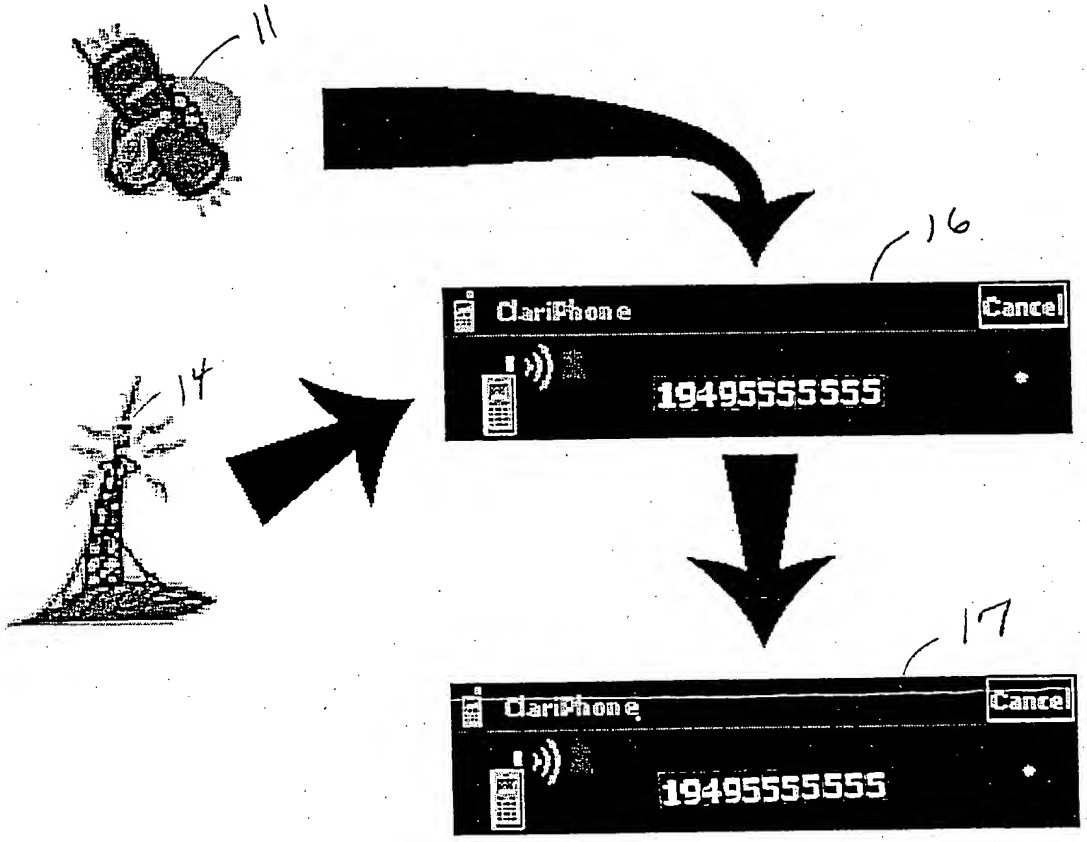

11
16
ClariPhone
Cancel
19495555555
14
17
ClariPhone
Cancel
19495555555

FIG. 4

Priority Level Assignments

	Display	Audio	Comments
ACP			
Application Traversing	20	20	
Emergency Service in Process	5	5	
Breakdown Service in Process	10	10	
Information Service in Process	180	90	
Menu Form	170	DOS	Depending on app status
RDS			
Normal Operation	255	255	
TA Interrupt	245	120	
PTY Interrupt	245	160	
Emergency Interrupt	90	75	
Menu Form	170	DOS	Depending on app status
ClariPhone			
Idle	255	255	
Number Lookup/Manual Entry	120	N/A	Background audio source active in this mode
Incoming Call	95	90	
Call in progress	180	90	
Menu Form	170	DOS	Depending on app status
AccuRoute			
Idle	255	N/A	Background audio source active in this mode
Data Entry	160	N/A	Background audio source active in this mode
Route calulating/recalculating	250	N/A	Background audio source active in this mode
Route calculated/no maneuver announcement	250	N/A	Background audio source active in this mode
Maneuver announcement	140	140	
Menu Form	170	DOS	Depending on app status
Messages			
Idle	255	N/A	Background audio source active in this mode
Incoming message notification (Wav)	N/A	110	Audio will be mixed with background audio except in cases of phone ring, phone conversation, ACP.
Message read (w/o TTS)	220	N/A	
Message read (w/ TTS)	220	254	TTS will not be mixed with any background audio source
Menu Form	170	DOS	Depending on app status
TMC			
Idle	255	N/A	Background audio source active in this mode
Standard message receipt notification (Beep)	N/A	95	Beep will not be mixed with ACP, Incoming ring
Standard message read (w/o TTS)	200	N/A	
Standard message read (w/ TTS)	187	105	Audio will be mixed with background audio except in cases of phone ring, phone conversation, ACP.
Alert message receipt notification/message read	165	95	TTS will not be mixed with any background audio source
Menu Form	170	DOS	Depending on app status
Voice memo			
Idle	255	N/A	Background audio source active in this mode
Voice memo record	183	145	(1) RDS Emergency, ClariPhone, ACP, TMC, VAN will stop recording immediately. (2) Background audio will be muted during record.
Voice memo playback	230	254	Background audio source muted in this mode.
Menu Form	170	DOS	Depending on app status
VAN messaging			
Message display	190	150	
CD/Audio Media Player			
Main Form	255	255	
Menu Form	170	255	
Video Media Player			
Main Form	255	255	
Menu Form	170	255	
Audio			
Main Form	170	255	
Address Book			
Main Form	235	235	
Menu Form	170	255	
Set Up			
Main Form	255	255	

FIG. 5

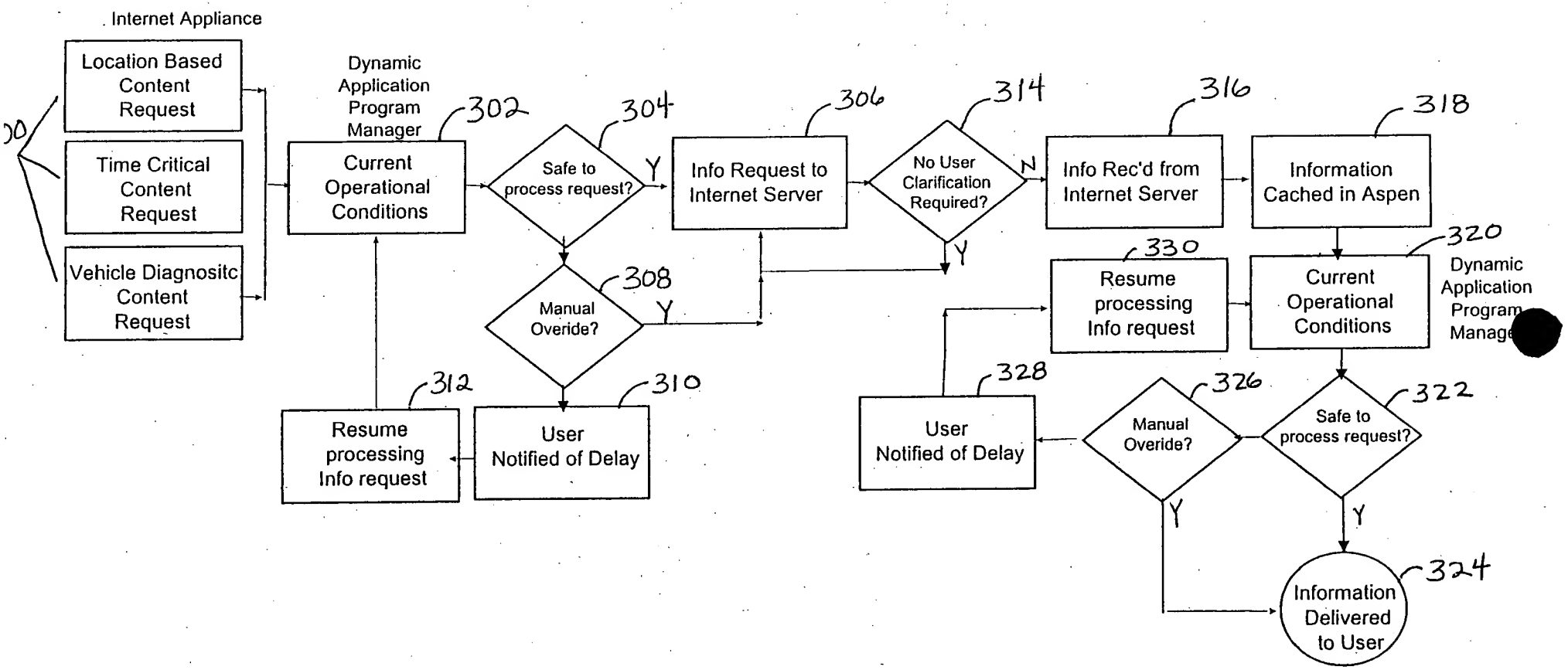

Internet Appliance
Location Based Content Request
Time Critical Content Request
Vehicle Diagnositc Content Request
Dynamic Application Program Manager
Current Operational Conditions
302
Safe to process request?
304
Y
Manual Overide?
308
Y
Resume processing Info request
312
User Notified of Delay
310
Info Request to Internet Server
306
No User Clarification Required?
314
N
Y
Info Rec'd from Internet Server
316
Information Cached in Aspen
318
Resume processing Info request
330
Current Operational Conditions
320
Dynamic Application Program Manage
User Notified of Delay
328
Manual Overide?
326
Safe to process request?
322
Y
Y
Information Delivered to User
324

FIG. 6